

# Titanium Mill Products, Ingot, and Castings



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The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of titanium mill products, ingot, and castings. Estimates are included for companies whose reports were not received in time for

tabulation. A description of the survey methodology and related information appears in the January 1983 report for this series, ITA-991(83)-1, issued May 1983.

Table 1. NET SHIPMENTS OF TITANIUM MILL PRODUCTS

(Thousands of pounds)			
Product	September 1983	August 1983	September 1982 <sup>1</sup>
Total <sup>2</sup> .....	3,087	2,437	2,994
Sheet and strip.....	(3)	(3)	(3)
Plate.....	1,316	1,141	1,329
Forging and extrusion billet.....	394	356	359
Rod and bar.....			71
Fastener stock and wire.....			
Extrusion.....	1,377	940	1,235
Pipe and tubing.....			
Other.....			

<sup>1</sup>Data are revised from the annual summary, ITA-991(83)-1, issued September 1983.

<sup>2</sup>Net shipments is the sum of mill product shipments plus mill products consumed in the manufacture of fabricated products, less total receipts.

<sup>3</sup>Data for sheet and strip, plate, extrusion (other than tubing), pipe and tubing, and other have been combined to avoid disclosing individual company data.

Table 2. TITANIUM INGOT, MILL PRODUCTS, AND CASTINGS: 1982 TO 1983

Month and year	(Thousands of pounds)									
	Ingot				Mill products			Castings		
	Pro- duction	Con- sumption	Ship- ments	Receipts	Ending inventories	Pro- duction	Receipts	Net ship- ments <sup>1 2</sup>	Pro- duction	Ship- ments
1983										
September.....	5,096	5,386	1,061	967	5,647	3,591	735	3,087	85	35
August.....	4,261	4,814	805	961	5,920	2,845	432	2,437	71	32
July.....	4,148	3,608	867	1,141	5,994	2,577	314	2,287	48	29
June.....	5,048	5,168	945	924	5,052	3,132	355	2,642	84	41
May.....	3,769	3,665	1,002	968	5,221	3,021	422	2,691	81	47
April.....	3,657	3,446	918	746	5,141	2,567	198	2,479	94	42
March.....	4,310	4,354	1,131	1,181	5,017	2,887	191	2,876	100	55
February.....	3,698	3,560	977	839	5,020	2,418	224	2,642	104	61
January.....	3,544	3,698	621	892	4,938	2,651	168	2,665	83	34
1982										
Total <sup>3</sup> .....	53,072	55,161	8,492	8,670	(X)	37,221	4,789	36,562	797	521
December.....	3,034	3,014	305	633	5,068	2,366	164	2,869	74	37
November.....	3,444	4,058	595	532	4,707	2,347	177	2,501	72	40
October.....	3,598	3,829	671	534	5,386	2,357	307	2,359	52	43
September.....	3,392	3,407	846	498	5,579	2,877	379	2,994	36	36
August.....	3,877	3,676	467	899	5,484	2,339	162	2,642	60	35
July.....	3,284	3,118	528	542	5,634	2,433	144	2,382	61	35
June.....	4,017	4,631	653	588	5,411	3,188	387	3,166	64	39
May.....	3,610	4,480	456	670	3,994	3,084	357	2,946	59	45
April.....	5,001	5,204	769	806	6,405	3,209	353	3,436	69	54
March.....	6,858	7,320	867	1,071	6,352	4,361	704	4,454	90	59
February.....	6,503	6,202	973	1,252	6,686	4,185	830	3,458	83	55
January.....	6,452	6,222	1,363	955	6,523	4,475	825	3,655	77	43

(X) Not applicable.

<sup>1</sup>See table 1 for more detailed data.

<sup>2</sup>Net shipments is the sum of mill product shipments plus mill products consumed in the manufacture of fabricated products, less total receipts.

<sup>3</sup>Inventories for the year are those shown for December.

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Table 3. NET SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF TITANIUM MILL PRODUCTS: 1982 TO 1983

(Quantity in thousands of pounds; value in thousands of dollars)

Month and year	Manufacturers' net shipments (quantity)	Exports of domestic merchandise <sup>1,2</sup>			Percent exports to manufacturers' net shipments (quantity)	Imports for consumption <sup>3,4</sup>		Apparent consumption <sup>5</sup> (quantity)	Percent imports to apparent consumption (quantity)
		Quantity	Value at port	Estimated producers' value <sup>3</sup>		Quantity	Value <sup>5</sup>		
SEPTEMBER 1983									
Total.....	4,148	434	4,018	3,910	10	229	2,088	3,943	6
Titanium ingot and forging and extrusion billet.....	2,177	377	3,210	3,124	16	30	210	2,030	1
Titanium mill products.....	1,771	57	808	786	3	199	1,878	1,913	10
AUGUST 1983									
Total.....	3,242	349	3,898	3,794	11	181	1,632	3,074	6
Titanium ingot and forging and extrusion billet.....	1,946	293	2,803	2,728	15	9	62	1,662	1
Titanium mill products.....	1,296	56	1,095	1,066	4	172	1,570	1,412	12
JULY 1983									
Total.....	3,154	274	3,732	3,632	9	169	1,262	3,049	6
Titanium ingot and forging and extrusion billet.....	1,859	148	2,125	2,068	12	12	93	1,723	1
Titanium mill products.....	1,295	126	1,607	1,564	10	157	1,169	1,326	12
JUNE 1983									
Total.....	3,587	371	4,350	4,233	10	194	2,017	3,410	6
Titanium ingot and forging and extrusion billet.....	2,312	269	2,497	2,430	12	20	173	2,063	1
Titanium mill products.....	1,275	102	1,853	1,803	8	174	1,844	1,347	13
MAY 1983									
Total.....	3,693	379	3,742	3,641	10	241	2,062	3,555	7
Titanium ingot and forging and extrusion billet.....	2,185	241	1,815	1,766	11	24	185	1,968	1
Titanium mill products.....	1,508	138	1,927	1,875	9	217	1,877	1,587	14
APRIL 1983									
Total.....	3,397	327	4,650	4,525	10	102	950	3,172	3
Titanium ingot and forging and extrusion billet.....	2,286	230	3,362	3,272	10	9	95	2,065	(2)
Titanium mill products.....	1,111	97	1,288	1,253	9	93	855	1,107	8
MARCH 1983									
Total.....	4,027	385	5,312	5,169	10	169	1,581	3,811	4
Titanium ingot and forging and extrusion billet.....	2,623	229	3,024	2,943	9	7	88	2,401	(2)
Titanium mill products.....	1,404	156	2,288	2,226	11	162	1,493	1,410	11
FEBRUARY 1983									
Total.....	3,610	124	2,627	2,556	3	162	1,467	3,648	4
Titanium ingot and forging and extrusion billet.....	2,297	56	1,111	1,081	2	25	234	2,266	1
Titanium mill products.....	1,313	68	1,516	1,475	5	137	1,233	1,382	10
JANUARY 1983									
Total.....	3,324	282	3,728	3,628	8	106	1,107	3,148	3
Titanium ingot and forging and extrusion billet.....	1,964	212	2,497	2,430	11	6	85	1,758	(2)
Titanium mill products.....	1,360	70	1,231	1,198	5	100	1,022	1,390	7
1982									
Total.....	47,021	7,200	100,606	97,901	15	2,166	22,269	41,987	5
Titanium ingot and forging and extrusion billet.....	28,041	4,392	60,239	58,618	16	426	3,976	24,075	2
Titanium mill products.....	18,980	2,808	40,367	39,283	15	1,740	18,293	17,912	8

(2) Less than one-half of 1 percent.

<sup>1</sup>For a comparison of Standard Industrial Classification (SIC) codes, Schedule B export numbers, and TSUSA import numbers, see table 4 in the January report ITA91(83)-1, Issued May 1983.

<sup>2</sup>Source: Bureau of the Census report EM 546, U.S. Exports.

<sup>3</sup>These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the values to an approximation of the producers' value of exported goods. Current adjustment factors are based on data for 1981 which are published in Origin of Exports of Manufactured Products, M81(A5)-5, appendix B. Comparable adjustment factors for earlier years are based on similar factors developed for 1971 and 1972. The current adjustment factor for this report is 0.9731.

<sup>4</sup>Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

<sup>5</sup>The value includes c.i.f. (cost, insurance, and freight) at the first port of entry in the United States plus U.S. import duties and other charges to the import point.

<sup>6</sup>Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.

<sup>7</sup>Comparability of output, export, and import classifications for ingot and billet issues that bloom, sheet bar, and slab are reported as ingot or billet in the output numbers. Figures for ingot and billet also include powder, crystal, and similar forms which are excluded from the output and export numbers.